

St. Louis, Mo., March 24 1881

My dear Perry

How can you "rile" me so terribly by that echinorhiza branch and flower, received today? What is a dried shrivelled thing to me, when I ought to see it fresh and blooming? Why not at least explain? Why no letter or at least a postal? Why have I not heard from you for so many weeks?

Here you have got hooks enough — but none of them for botanical objects! Well, I hope the letter will come, giving a full description of the plant at least the flower. From the pressed fragment I can not judge of colour (reddish-fragrant I can not judge of colour (reddish-green?) shape of petals number and colour of stigmas.

I see that the first train on the "Barnes line" has arrived in Kansas City, 2300 miles from San Francisco, "on time" all straight! Should I not come? But where would I find you?

Sargent was here last week, 2 days, on his way to Texas with Snyder, as usual. We sat together from 10 AM till 10 P.M. looking at specimens and discussing them. But I like better to work and study.



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when quite alone, nobody to interfere. We have settled one thing satisfactorily, *Abies nobilis* is an Oregon tree, distinct from the Shasta tree, and the latter is a form of *magnifica*.

Another strong probability is that *Lowiana* the Sierra tree, may be distinct from *concolor* and that it approaches *grandis*, oscillates between those two species, and extends way up into Oregon (we ought to have seen more of the Cascades!)

I have had all winters *Abies* here; mostly *A. subalpina* & *A. Engelmanni*.

A letter from ^{written} Guy before his departure for Italy with Hooker, is really distressing. The Astors really trouble him terribly. He has, however found time with Hooker to elaborate the 'View' of the Rocky Mountain Flora for Hayden, since 1847. I just got a copy of it.

But I swerve from my purpose. In examining the Oaks I came across a specimen of that white oak which may be *oblongifolia* or a form of *Douglasii*, which I gathered at San Gabriel, and which you and Parish said, did not grow near San Bernardino. But here are your scraps (more so) 1876 I believe "from San Bernardino" Now, you got that again, there or at San Gabriel, in flower and young foliage, and send it to me. I am still in doubt about it. Is it a Southern form of *Douglasii* or a distinct species? Are the leaves persistent through winter? And



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into Summer? Douglasii has deciduous
leaves. On my trip home about Nov 18 or 20
I saw all the oaks in the foothills yet with
leaves, but while Wislizeni and Chrysolepis
were deep (rather dirty) green, Kelloggii was
bright yellow and Douglasii and lobata more
of a dirty yellow, evidently ready to fall.

I must urge the Santa Monica Mountains
on you. That *Di-centra ochroleuca* n. sp. has flowers
twice as large as *chrysanthus* and that fine foliage.
And then I have from there a purple *C. shortii* var.
thing, something like a *Shepherdia*, but
generally distinct, and 4 feet high; and that
shubby *Malvestrum*. It seems to be a nice
locality. Of the *Di-centra* I have unfortunately
no seeds. *Ceanothus spinosus* is the common
fire wood there ("Redwood") I have not seen
the species any where else, nor did I have it
from any one else; of course no flowers in Sept.
And they have another stout tree like *Ceanothus*
there which they call Iron wood. What can it be?
Our Auburn *Ceanothus* was *C. cuneatus*, and that
from San Bernardino Mountain *C. integrifolius*.

But now about our San Bernardino
Operation, which you study every morning and
evening - how about that?

Well, it is possible that I form a
sudden resolve and start south west.
How can we meet there? Where
and where? Must the last arrange-
ments be made by Telegraph?
How about Greene?
Write at once? I do not
promise to come - but seeing



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budding and flowering Casti. I can
hardly hold back! And it seems to
be high time - even here after the long
winter, spring is moving. Over as you
begin to bloom - buds are swelling -

I want a letter or a postcard (or a
telegram) from you ~~at once~~, as some
stanzas may dictate

Remember me to the ladies
and don't forget our friends Wright and
Parish - to the letter I have written
not long ago

Yours truly

J. Engelmann

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GEO. ENGELMANN, M. D.

3003 Locust Street.

St. Louis, Mo., March 28 1881

Op. fulgida and *arbuscula* rec^d today - fruit of
the latter was unknown before - seeds curious. When
does it bloom? Are these fruit of last year? ^{not ripe yet!} Gled you
have found and recognized the plant. Look for *O. mamill*
ata, with very juicy stem, very prominent, glaucous tubercles.
I do not know its fl. or seeds, found it south of Turson. - I
wrote you last week, Sargent was here 2 days, since then
Pringle one day - he will be in Turson this week and make it
his headquarters; had a letter from S. for Austin today.
I am undecided yet; expect letters from you.

Yours - GE



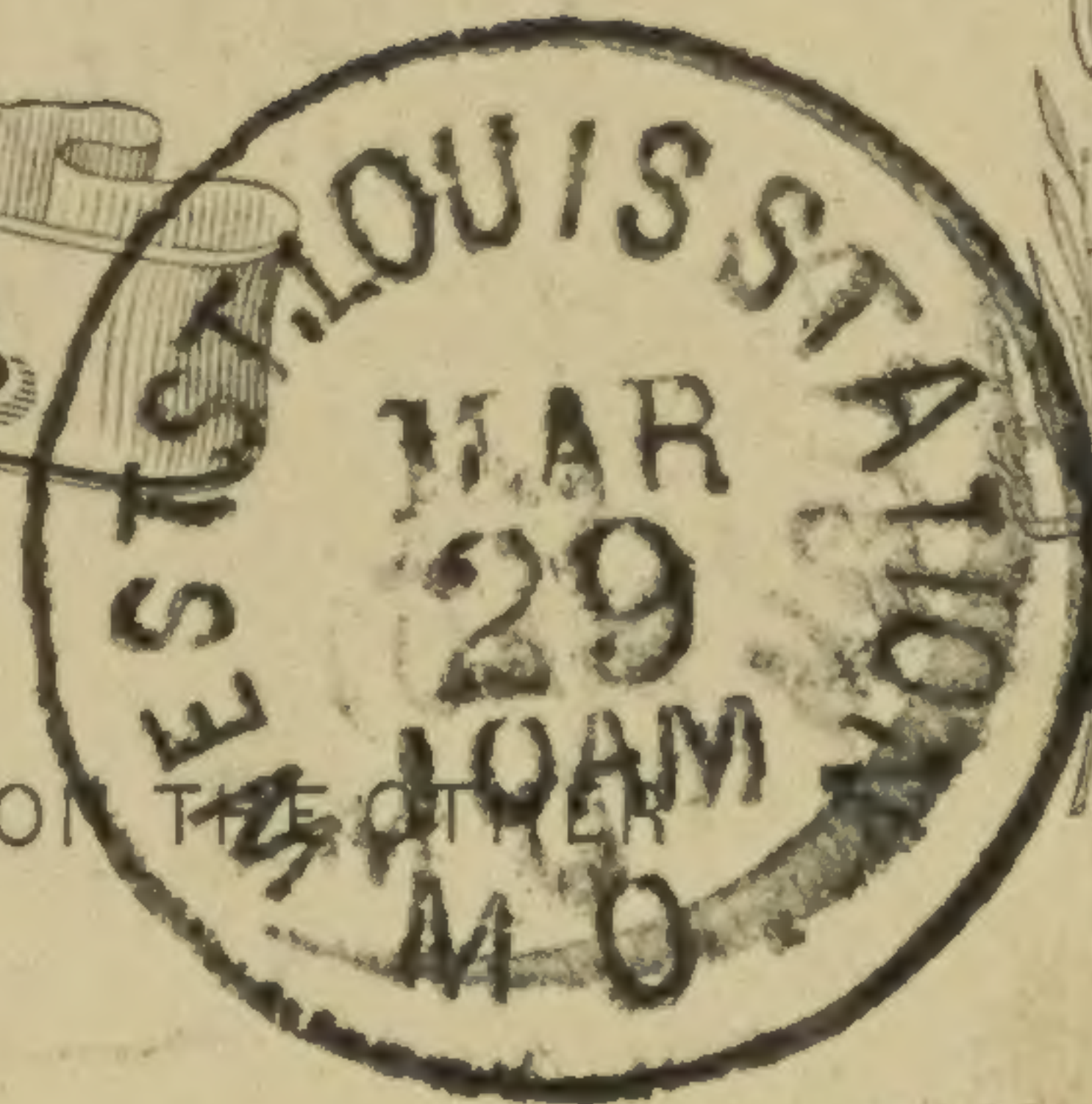
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WRITE THE ADDRESS ON THIS SIDE—THE MESSAGE ON THE OTHER

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J C C Parry

Los Angeles

Colton

Calif



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St. Louis, Mo., May 10th 1881

My dear Parry

There is a pretty muddle! but I am in the worst of it. This morning I get your Postal, S. Fr. April 21st the first thing I hear from you since 3 or 4 weeks. I am just out of bed for the first time since April 23rd when a severe attack of infl. rheumatism, the first since 2 1/2 years, threw me down. I at once wrote you (to Colton), Greene, and to both of you at Deming a short Postal, not to expect me.

I had Greene's answer a few days ago; he seems not to have expected me; says he is leaving Silver City and will be stationed at Berkeley - but you know all that by this time. Whether you got my PC in time, I do not know.

Yesterday you riled me a good deal sending me that miserable jocular burlesque from S. Fr. What for? Why not J. Kellogg's? I had written to Lemmon about the latter, but his answer came from Arizona where he has found *Agave Schottii*; but it is not Lemmon who sends that but Watson as a new Yucca with newly made name! Since then I have got a lot of things from Benson, Arizona (Cacti) from Mr Miller, a nurseryman in S. Fr. Among them a living *Agave Schottii*. Do you know any thing of him? Was he with Lemmon in Benson? It was no pleasant matter to open a box of Cacti in bed - Still I could not help doing it, and I think escaped the spines pretty well.

But to go back to last month. I do not have the documents with me, but think I am correct when I say that before the middle of April I got a card from you appointing end of April as the time of meeting at Deming. All right! I thought and began to make preparations, when another Card came worded so loosely that I got quite disgusted: you would go to Deming and with Greene



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to El Paso and I might try to catch you either
going or coming. I felt quite disgusted, I did not
know exactly what to do, and when I had made
up my mind to go any how, and was ready to
write and telegraph I was taken down and have been
in bed ever since. I suffered a good deal but
am getting better, have been out of bed a little since
yesterday, sitting up first time to write this, can
move through the room with the aid of a chair and a
cane and am altogether in a nice fix to travel.
— That, however, or therefore, is over for this year.
Who knows what next year will bring.

I hear often from Sargent, Pringle was on the Ste
Catarina Mts & don't know whether he has done much
Sargent seems to expect more. ^(where found Cupressus)

And so you are at Los Angeles! This postcard
is the first to tell me that that is your address.
In a former you said your ladies seemed to prefer
Los Angeles to Colton, but did not say you had moved
there. How can I guess? I wish I had you here,
my feet are just beginning to twinge me — have been
sitting up too long — feel as if you were just a
good subject to quarrel with.

Muir has sent me G. Douglasii from Maricopa,
speaks of his bouncing girl, etc.

Are you doing any thing about Oaks or Pines
or Cacti ???

Being in Los Angeles you ought to keep an eye on the
San Gabriel things. I am inclined to consider G.
Douglasii legitimus from Napa, Maricopa etc. (Mt Diablo?)
G. D. texensis gracilis (with slender fruit) from foothills, ~~the~~
Tulare Co — and all those south of the San Bernado
& Los Angeles ranges as distinct. The first have among
other characters elongated styles, the latter broad sessile stigmas.
Write soon, at once!

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Yours

J R



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all the dry-fruited Opuntia are very similar: *Acnistia*, *serotiana* and *chryso-*
carpa (how does your *Yucca* thing - it has no dry fruit?)

GEO. ENGELMANN, M. D.

3003 Locust Street.

St. Louis, Mo., May 25th 1881

My dear Parry

It is 5 weeks today that I wrote you
that ominous Postal - and I am not well yet!
You must have got my letter of the 10th telling you, how
it was impossible for me to meet you. And even
now I am a cripple yet. I walk with a cane,
ride out to see patients, but can hardly get in
and out of the buggy - and Parisk's waggon would
be an impossibility for me! Still, I am getting
better, and think of meeting you next year in Arizona
or California - will you wait for me?

I hope you have got our *Ephedra* of San Diego
and white water, which I suppose are the same,
in flower and fruit. Cleveland wrote me, that
he was too unwell to go for it over the bay, but
would send a boy! That is the last I heard
from him.

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Have you been at Santa Monica? I want
a good deal from those Canons. My new
Dischidia *obovata* will appear in the next (June)
no. of Gazette, and - don't you stare? - a new
Bougainvillea from N. Carolina!! - You will find there
the rare *Ceanothus spinosus* (Red Wood) quite abundant,
I would fl. specimens. - And many other things. At
Santa Monica I also collected the curious scurfy prostrate
thing, we find at San Diego also. It is 'Wilson's' *Atriplex*
procumbens. Get seeds of the *Dischidia*, if you can
and tell me also, whether it is perennil, which I
neglected to investigate. / and the *Agave condensata* 12 feet
You will find there also a *Aschmannia* plant, with
purple flowers, 3-4 feet high, but very graceful, some



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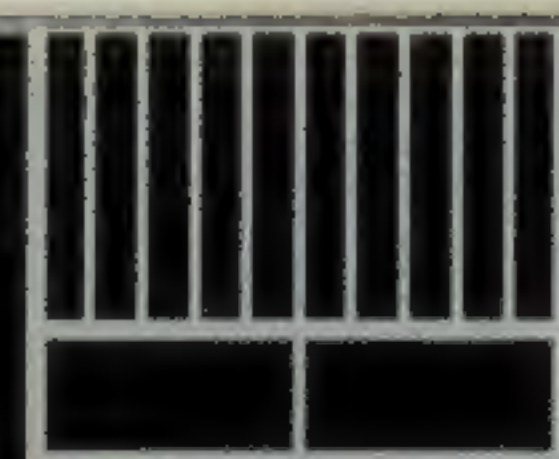
What like a *Staphenocarpus* or *Lygodesmus*, but
will distinguish from both, apparently a new genus.
I also do not know whether ^{forams} perennate - Also the
shrubby *Madrostrum speciosum*. It is a lovely one
- should stay a week in!

O, if I could only, I would be with you
before a week is over - It would take 3 or 4
days only!

And you write that *Opuntia Bernandina* is a
flower - but that is all, you send no flower, don't
describe it - say nothing about leaves - o - o - o!

I have got from Meier (who is said to have left
wife and child and gone to the Arctic regions?)
young *Quercus Douglasii*, and I think I can distinguish
all the forms south of the Santa Monica - *S. Bernandina*
Mountain, and as far east as ^{the canyon of the Colorado} Arizona & New Mexico
from ^{the dividing} *Douglasii* which is in *Santa Fe* - *Santa Fe*
Village etc. - trunk and bark similar, even leaves
but flower and acorn different. Get material
of them where you can.

So you are in correspondence with Pringle
Sargent writes me. P. found whole forests of very
Pin. Arizona at greater elevation than ponderosa
smaller leaves etc. - Lemmon wrote me from El
Passo that they are the same! Must look myself!!
It is a good joke that we ought to have gone a
few hundred feet higher on the Sta Rita Mts
to have found Arizona, but there was no time, not
5 minutes!! And Sargent had no eye for it. All we
got was that sapling branch, I brought away.
Pargen will never hear the least of this! Well last spring
he made up for it by getting a new? Maple, near Lubbock,
Texas - I saw little *Schalemastrum*, Letterman found the same
near Little Rock a few weeks ago - I will have to describe it
- Write more diligently - it is all I shall get from
California this season!
remember me to the ladies
Young man G. E.



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St. Louis, Mo., May 31 1881

Dear Parry

had your letter today
with sketch of *Op. Bernardina*. All right —
now I expect the dried specimens and
the leaves you have forgot — length and
direction? —

Too bad that you should be sick too,
and with those miserable chills. Take quinine
and dark wine — that rich Los Angeles
wine must be capital!

I wrote you only a few days ago, and
have not much to add, getting better very
slowly — go out or rather ride out —
but have not yet been able to put
leather shoes on.

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Bingle writes again, and Lesson
from El Paso says he has exhibited
Pinus arizonae; well we will see, I
believe in my child yet! Lesson
is, I think, too hasty — no doubt, he
has found *ponderosa* with 5 leaves, but
that is not the only character, the number
of leaves!

I have had a little previous correspondence
with Hall; he seems to be under the

I wish Lesson in case of *arizonae*
as if that being in dispute with you!



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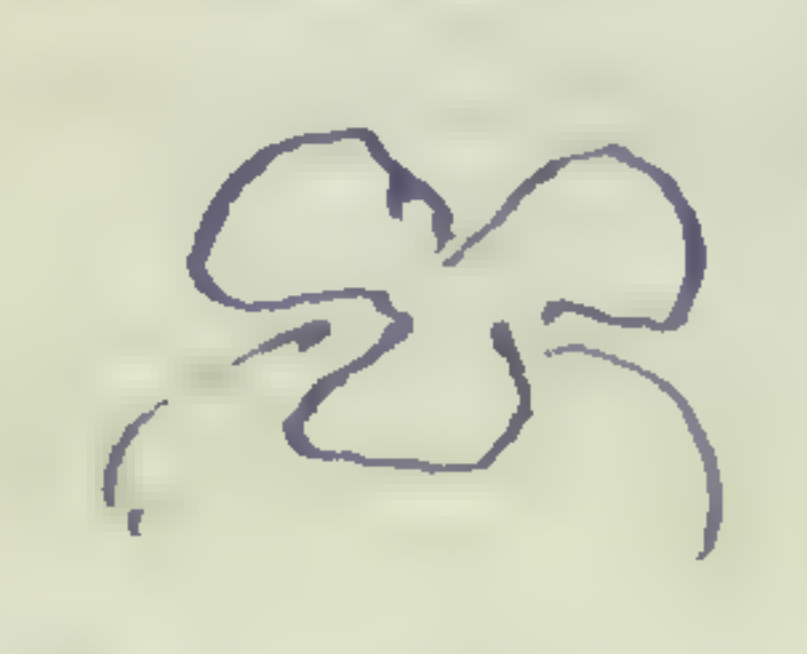
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weather, low spirited, he says chronic
bronchitis or maybe consumption;
pusulent expectoration etc. — a little
better since warm weather, but bad yet.
The question is about some Oregon Junco,

Yes, if you purposely sent *That*
Bufonius (you know the anecdote about that
name? Linnaeus who was a great wag
and I believe a good hater too, wrote the
name *Bufonius* as a cut to Buffon
who was a great antagonist and is said
to have taken great offense at it) to
anger me, you succeeded well; but
if you spent half a day to hunt up the
Kelloggii, I owe you many apologies and
thanks!

I thought that *Yucca Opuntia* had seeds
different from echinocarpa, you still place them
together?

Is the San Gabriel Oak evergreen? People there
said so — but who can rely on people?
not always, not often on botanists!! — I have
also found near S. Gabriel trees with lobed leaves
predominating. — You ought to get specimens
of *Douglasii* and of *oblongifolia* in summer with
young fruit. Styles of *Douglasii*   *oblongifolia*
But if I understand you right
you think both, *Douglasii* and *oblongifolia* are found
at San Gabriel?

Write a little oftener! I set you
a good example
Yours truly
Gray



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GARDEN

Albion June 18 1881

Dear Parry

Yours of June 8 is in my hands; in fact my principal correspondence now is with the west you (a principal correspondent!!) Lamm, Miller and above all Pringle. He reports very regularly and fully. And to your letter. Thanks for the good material for *O. Bonardii*; & no, it is not = *echinocarpa*, but they are allied and also serpentine. From Lamm I got this week some good things, and to my astonishment some good *Cacti*, a new *Mamillaria* and a very interesting slender *Opuntia*, about both of which I have written for fuller accounts. From Miller another batch of *El Paso Cacti* today; some of our old boundary friends, which I had not seen since. Pringle has sent more living plants of *Agave Schottii*.

Meehan sends me fresh flowers of *Y. angustifolia* raised by him from his own Colorado seed and from your Utah seeds. "You said they were different" and I set to name the Utah thing? Parry of course, but then, it is nothing but *angustifolia* and shakes my confidence in your *Yucca seneca*. What will he say when he gets plants in flower? And I can not distinguish it from *angustifolia*! Maybe I am not keen enough. I send you notes from Bob Gyatthe. Have more for next number and a Review of the ^{Ed.} *Roses*. What do you say to the new South eastern *Isogr?*

I hope you have collected numerous specimens of *Y. Douglasii* north of the Mohave Desert and *oblongifolia* south of it. That is my view now, the latter extending to New Mexico.

I wrote two letters to Lamm, which I think will satisfy him, though I don't agree with him about *Pia Arizona*, about which he wrote in our *California Arizona* paper!! Inexpressible!



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Do you go to La Monica? How I should like to be
with you there!

Greene is not his own master - Berkeley
as he used to be in his wilds of Alameda -
full restraint, I suppose.

Did you get our Uromyces on your frequent
trips through the desert?

What do you mean by: "will
break loose in 2 weeks"? Leaving Los
Angeles or California? If you go
by the Central Pacific you should stop a
few days at Soda Springs where you lost
me last year! You may find me now
or some remnants of me!

My health is improving but I am still
"weak in the knees" and somewhat lame;
thought of going to Soda Springs - will
you meet me there or at North Park?
At all events keep me informed of your
doings!

Remember me to your ladies
and write soon and often

Yours truly

G. Engelmann

Did we not get the San Diego - & the
San Geronimo Epheura - fl. & fr. ???

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St. Louis, Mo., July 12 1881

Dear Parry

you see I am more prompt^{er} than you and answer at once your letter rec^d today - why? because I shall not have much more time to do it, for I am leaving here in two days, I expect to and where? Europe? California? No not either way! I shall hang like Marko's coffin in midair - go to Colorado and not further! I expect to spend some days in Empire, where I may hope for a letter from you - at Pikes - would you come and join me there? Perhaps, a week at Silver Spring - or may be in the Sulphur Springs of Middle Park I am a little afraid it will be stale and unprofitable; but then, I go for invigorating mountain air and for these springs, to get myself all well again. I expect to spend a few days on Bent and Pass Hotel, & otherwise I have no definite plans.

Now about your letter. That *G. agrippa* with small dark green leaves ought to be looked into. Yes, I have seen it, but only in "miserable though interesting" bits, not growing. Tell me all about it, its size, locality etc. *G. Morehus* (not *Morhaus*) Kellogg is most probably a form of *Whitmanii*, but which, and what, I do not know.



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I am especially interested in that San Gabriel
lobed-leaved Douglas Oak. It I saw it on
the road from Los Angeles to S. Gabriel, near the
first scattered houses, where numerous trees of
both kinds, but more of the oblong foliis were found;
these only had fruit, very obtuse, while the Douglas
north has acute acorns. No, you send no specimens of either.

I saw yesterday at Shaver's room of your
Mexican Cacti in bloom and have studied
them from time to time this spring as they
came to flowering.

What is that about your trip to Europe?
Serious?

I hope Lemmon's "smashing" those poor
species - will not hurt me badly.

Send me another paper on Californian
things - Roses especially, have written
Greene about them. - Will have a new *Eriogonum*
from Scott's Mountain. -

We have excessive (Arizona-) heat
since 3 or 4 days every day 100-102; how I should
like a chilly blast on Lone Mountain! Well
I will get it on Parry's Peak, next week, I hope.

And now good by, I hope to hear from
you in Europe!

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Yours truly

J. Engelmann



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On Berthouds Pass, at Capt Haskill's,
St. Louis, Mo., July 20th 1881

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Dear Parry

"are you the gentleman for whom Parry's Peak over here is named?" No I am only his humble friend - - - A beautiful bouquet on the table: - - "this is Parry's Primrose!" So you see your name is immortalized and popularized here. But I was too modest to say that all the stately trees about here are known as Engelmann's Spruce, they do not have advanced enough in Botany to know that! - Yes here I am on the divide, my eyes poetically straining to find the gentle Pacific! This is the first day that I feel a little life and hope and something like reviving energy in me - how stale, unprofitable and depressing was Empire! The house enlarged and crowded, one was stumbling constantly against strange and uninteresting people, no room for ourselves - I sprawling on Rombarer's room - and rain every day! But here, yes here we have escaped Empire and the Peak house and are sole possessors of a nice little Parlor, and such capital weather! Why, it beats the night in Parry's Camp with rain and smoke and snow, and as to fine views and botanical tramps, we will have all that to-morrow or the following day or some time or other, we are satisfied and pleased to see *Polygonum Distortum* and the splendid *Castilleja* and the *Delphinium* (from the window) which no fog or rain can dim, and to know that that *Aquilegia* and *Polemonium* are within reach if we only want it - and what not all - and Parry's Peak, as soon as the weather clears up! It is quite cozy and cheering here and a little flock of Engelmann's Sparrow is especially grateful

So you notice the "Parry's - smother" - "Emerson" - a fine friend you! and out of all this I shall doubtless very probably find a beautiful *Delphinium*, so when you see me here you get my papers in one - I am sure I shall find a very beautiful



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You see that even in other places than San Francisco it may be cool enough in July to be uncomfortable. It is not colder than on Lone Mountain July 3^d last year, I believe, but it is wet, cheerlessly wet, and foggy, - but who cares? You see that I am determined to be in good humor, and I am that! You may thank this weather for this letter, for otherwise I would be out on the "alpine slopes" revelling in its ^{and may be, discussing} with Meek the timberline.

Pulse and respiration at this 11,200 feet altitude as good as the president's ^{or better!} and temperature a good deal cooler. This is the last bulletin at 4 P.M. But how matters will change when exercise and exertion is demanded, the next bulletin of the attending physicians will show.

How in x x x name do I come here? It was so hot in St. Louis and though I stood the 98 to 102.5 well enough I felt that even by staying it out I could not accomplish any work, and so I resolved to come here, invited. nephew in Buffalo to come with me - he accepted, jumped at the rare chance to travel under the mentorship (not Mentor in the blessed state of Ohio) of this experienced septagenarian and after spending a broiling night in Denver with its splendid R.R. depot & electric light(!), and two days in Empire, are here waiting for something to turn up.

But I am afraid my climbing days are over; they or it was bad enough last year in California, but now in it age, respectability or youth? - I can accomplish nothing - so I can not promise positively that I will worship on Purgatory Peak - but I will try to!

I ought to write to Dr. Poche, but this must do for both of you; this is the way of corresponding, which we have fallen into; he writes to a friend in St. Louis and adds a few words for me, and here, you see I do the same! - Had a letter from Sargent in Empire, wants 200 of Douglas's seeds - but there are none at all this year. at least about Empire. Gery in England, will probably not return before Spring. - Watson seems uncomfortable.

I close on 22^d - had rather nice botanizing, today first dry day! will be a little longer here notwithstanding! yours ever G. Engelman



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Very small cones *Picea pungens* here = Engelmann! with *Picea flexilis* etc. - What is the
large leaved *Broom*? no flowers, is it *speciosa*? We have here an old
gentleman from Davenport Dr T. J. Neis and a Mr Smith in the Hotel
GEO. ENGELMANN, M. D.
Dr J. says he was one of the founders
of the Academy. 3003 Locust Street.

Hot Sulphur Springs, Middle Park
St. Louis, Mo., July 31 1881

Dear Parry

Your letter was received on Bertha,

Pass in which you invite me to skip
from Colorado to California. Even Rocky Mountain
Coronets of which we begin to see a few, would
find that difficult to do, though I must say
that the idea has come to me sometimes.

Well, you must have got mine of 12th a day or two
after you wrote, and I expect an answer via Empire
every day. Since then I wrote you from the Pass
quite enthusiastically, I suppose, for I felt so;
but the mountain experience did not come up to
the gorgeous promise the Pass gave. It seems that
long winter and especially late frosts have injured
many flowers. *Actinella* was miserable, and *Polemonium*
seems to have been all destroyed, no flowers, nor seeds,
only withered flower stalks.

You ask about seeding of *Campanula*, *Picea contorta*
and ponderosa do seed, but none of the annual-fruited
ones, *Campanula*, *pungens*, *Douglasii* are absolutely barren
also subalpine. This latter I find high above timberline
among the weather beaten boulders. Largest wanted for
some European friend 200 ff *Douglasii*! None
this season.

You have seen my little article on *Campanula*
uniflora. Well, it was premature. *C. uniflora*
I have now seen and compared with the falsely
so called *longisiliqua* of Engelm - also seen here
in Middle Park. They are quite distinct and if the latter
is not a Siberian species it will be a new one
distinct from *uniflora* as well as from *Schrenkii*. I
will look into the matter again, via Empire. I found

Please return to
C. E. Parry



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GARDEN

only 3 specimens on Mt Horn, on which I was twice
but I had not the strength and wind to climb Mount
Parry! I felt mean, to neglect your namesake.
I might have found more uniflora there, which I
wanted to study. One of your (very few) faults is
or was that you did not give exact localities (except
but I can now see that uniflora grows only on the
highest alpine slopes, while my new one, common about
Empire, etc. is 3000 feet lower. What is your own
recollection about their localities?

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

I have taken baths in the Hot Springs, - which I find
pleasant but fatiguing; whether they do me any
good remains to be seen.

Botany here rather poor but to me interesting. On
the Grand and on sandstone rocks is *P. pergens*; on
the rocks I saw for the first time *Cowania*, but out of
flower, a flat leaved *Allium*; *Rosa acicularis* common
and very fine, very fragrant, but mostly out of flower.
The same is common, and the only Rose, all along
Clear Creek, but not up the Pass.

Your invitation to the fruit abundance of California
is particularly tempting especially when I saw here
today a fellow like Californian Grapes. They seemed to me
sour, though! (and an interloper like me to tell them so!)

If those fellows have known *Eichscholtzia peruviana*, say
did they permit Wilson to declare it annual? It annoys
me to start them on these investigations. I had studied
Hummermannia 30 years ago from Williger's specimens and
thought then, there was little to distinguish it from *Eichsch.*
I hope Parish etc will now clear up this matter. It
is certain that all the Cultivated *Pich.* is annual, but
it may never have been tried to fix it as a perennial.
Get me good seeds of different *Eichscholtzias*, Cliffhouse
etc. Take a hand in solving the question. I have written
to Greene about *Arceuthobium* - hope he and you will study
them with the *Cypripedium* (false?) emanating from me!

I hope you went to Sta Monica also, I want you to
study a little that nice flora and my new things there.
I expect to roam about a little in Colorado and then return to
St Louis for the fall & winter.

Yours ever G. Engelmann



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MISSOURI
BOTANICAL
GARDEN

Hot Sulphur Springs, Col

St. Louis, Mo.,

Aug 7 1881

Dear Parry

"I send this on its way to E" (Empire) — but the letter was directed to St. Louis, reached me nevertheless ^{yesterday, together} here with a postal a few days later directed to Empire, as also the Oak specimens. About the latter I can say but little here; the imitation of the leaves etc is not puzzling, but the great difference in the fruit development; the styles would suit me — so, will say nothing now but wait for more material from you and Pringle ^{here to} to compare with mine next winter.

I fear I shall ^{have to} forget the pleasure of your company that of Leonora's. Berberis etc etc and the enjoyment of your grapes — in place of the latter I have eaten a few berries of the Mountain grape here (Berberis) and imagine the rest — lively imagination, eh? —

I wrote you from the Pass and from here; so you know of my whereabouts. We have returned yesterday from the picturesque Grand Lake with its canyons and "Mad creeks" and its growing town. *Picea Engelmanni* and many alpine plants come down to it, while *P. pungens* is here ^(Hot Spr) and with such small cones that ^{they} may be taken for *Engelmanni*. Gent Parry is abundant here and there in upper Middle Park, with 5-7 flowers in a head. In bathing in the lake I walked over the meadow of *Juncus* — unfortunately not sufficiently advanced, but probably *Polanderi*, between 2 and 4 feet under water.

Am studying Willows a little — have here 5 species which Bebb will give to help me about — if you should not come along.

Do you do any thing in Roses? either to help or to refute me! You have my notes on Calif Roses?

I do not know now what the bit of *Clownella* is, you inclose in your letter; but why not send our doubtful *Projava* *Clownella* *oblongifolia* — *trichocarpa*?

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GARDEN

Don't you go to Santa Monica at all?
Mind the Dracopis there and the tall many-flowered
Stephanomeria. In both I have shamefully (truly
I confess it) neglected the root - whether perianth?

I have written to you about Campanula. The so called
C. Langsdorffiana is common here and up to Grand Lake
its rootstock is filiform with filiform stolons. It is
well distinguished from the other *C.* with erect fruit
(capsule and subrella) but what I do not know, is
whether it is the original Siberian *Langsdorffii* or distinct,
and whether *Langsdorffii* is a Schrenkian, as Gray says or
not - authentic specimens must decide that.

This is a lazy day of rest for me - Tuesday -
I am tired and probably from a prolonged hot bath -
I take one every day I am here. Tomorrow we
are recrossing the divide and will be in Empire
at Pikes' if they have room; they are very crowded.
All Denver is flocking there - here also some Denverites.
Temperature in D. said to be 100. -

The general plan is to go to Leadville per S. Park
R.R. return by Canon - Manitou - and home
in 3 weeks; but address Canon City.

Yours truly

G. Engelmann

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



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MISSOURI
BOTANICAL
GARDEN

Write to Canon City.

GEO. ENGELMANN, M. D.

3003 Locust Street.

Empire City Co

St. Louis, Mo., Aug 17 1881

Dear Parry

My last letter was from Hot Springs Aug 7. The following day we went by stage to Empire, found all communications, even mail, interrupted by washouts in Clear Creek Canon, 5 or 6 days later lots of letters came and with them yours of July 31 and Postet Aug 6. The weather has been fine in the morning, but rains, oft heavy in afternoon and night. Had only one dry (not fine) day since I am here, are sick and cross, and want to leave, probably to-morrow, but hear the same bad news from other places - Colorado - a gentleman who came from Leadville says, he saw nothing, because it rained all the time. Even here our little Lion Creek made a disturbance the other day, a local waterspout must have occurred, it suddenly poured out a thick black mass of liquid mud, tumbling down rocks, spreading over the banks, etc.

Judge Roubenauer is working down the high gravelly and bouldery banks of Clear Creek below here, 1 mile, for gold, turned part of Bard Creek down there, very troublesome, very expensive - but whether it will pay, remains to be seen.

I have taken cold, got wet, feel ill at ease, impatient at the weather - but we are very well here, good rooms, not over crowded, table much better than formerly. Henry is on the R. Road, Jim was here the other day, is superintending a mine at (Durango?) over the Argentine Pass.

Weather said to be very hot in Denver and in St. Louis they had 106° last Friday - thus the rain here is still preferable. George & wife are comfortable on the cool & foggy coast of Massachusetts.

No botanical news from here; Pleurogaster is in flower on the same meadows -

I write to Pringle, care of Greene by this mail -

Glad to see your activity and spirit; why, your rival Lemmon as a "smasher" (of *Hololobium*) hope you will be more successful, than he - for Pikes Arizone must stand (and Jeffery also!) fixed me interested to form



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MISSOURI
BOTANICAL
GARDEN

of Jeffrey's ponderosa; Merri say they occur in Yosemite but nobody sends them.

I am sorry about Cleveland; I sent him all his ferns & deciduous I could spare; Chil. Lindb. & Ariz. Mex. I took part of my own herbarium specimens to send to & satisfy him. If I promised my Carter papers, I had forgotten all about it and will try to hunt up a copy for him. I do not want him to be dissatisfied for he has been very kind and liberal to me. Pity he did not get the Ephedra. Did any one get it at San Geronimo?

I wish you would say that to Cleveland, I can not well do it myself.

What is the trouble with Pringle & Lemmon? Probably the latter is the wrong. You, umpire!

I have got your Oaks from San Gabriel, and reported (satisfactorily) on them. Thanks for the Q. Breweri; it is the right thing - who collected it?

I have now no recollection of the yellow Oxytheca.

At your suggestion I have written to Gen Palmer, expect an answer (or not?) at Denver in a few days.

We intend to go to Leadville and Canon City, all by rail, end of this week - write to Canon City. I hear nothing from Brandegee, to whom I have written long ago. If I get passes, I may go down the A.R. as far as it extends; if not I probably shall return home from Pueblo; but that A.R. is also broken up by storms.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Do you see my correspondents Miller?

You must ascribe this poor letter to my state of mind - good for nothing!

I had a note from Wright, S. Brewster, with a few plants which I could not name here.

Gray is to sail end of October for home.

Wilson is in Cambridge, don't seem to be at ease, & writes occasionally.

I envy you not the cool climate nor your "elegant case" but your fruit - eat as many grapes and pears for me as you can!

I have seen Mr Lindstrom, he not in, Maggie went with us to the ice cave, which has snow & ice enough, but Bald Mt is quite bare - Mr Ball the same old careless fellow, as ever. Remember me to the ladies.

Yours S. Engelman



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MISSOURI
BOTANICAL
GARDEN

Leadville Col
St. Louis, Mo., Aug 25 1881

Dear Parry

Here we are in Leadville, the city of yesterday - a curious mixture of huts frame houses and a few stately brick-buildings - not worth while to be here, but the trip yesterday over the South Park R. Road was splendid, and splendid weather we had - but as soon as we got up here to 10000 feet a heavy rain set in last night.

At your suggestion I had ventured to write to Gen Palmer to give me and companion a free pass and in the hotel in Denver I found it "from all stations to all stations" till next New Year! But we did not come by his road wanting to see as much of the country as possible we came by the South Park and will return by the Arkansas branch through the Canon, and go south to St Louis Valley, or at least to La Veta Pass, go to Manitou and then return by the Atchison & Topeka & Santa Fe Road.

Palmer is cash, so I did not see him, but I hope to see Dr Bell in Manitou.

I have no botanical news and am



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BOTANICAL
GARDEN

now cut off from all Communication, till
I reach Canon City.

It is possible that I may go as far
south as Santa Fe, as Genl Palmer
permits me.

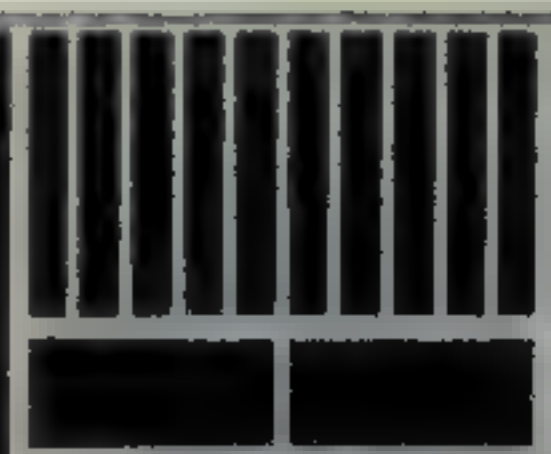
I had a very pleasant letter from
Dr Behr, who wants me badly to come
and help him civilize you - but
I am afraid I would be a poor
missionary in the cause of the
California wines.

In haste, yours ever

George Engelmann

Yours of 13th reached me on 17 & I replied -
but I do not have it at hand just now -
I shall write to Behr soon, perhaps today
or from Taos when we go tomorrow.

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GEORGE ENGELMANN PAPERS



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MISSOURI
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GARDEN

Santa Fe N Mex

St. Louis, Mo., Sept 10th 1881

Dear Parry

I have nothing particular to say except that fate has brought me here to this delightful bracing mild roasting old town with its barren hills, and interesting Cacti — barren only to those who do not know the know nothing! To me the botanical harvest is only too rich; all my paper is used up and I am quite embarrassed. Glad to get away to-morrow and hope to be home by next Thursday after a bath in Las Vegas Hot Springs. The last of the 3 other hot waters which I have tested. Tell Beck that I have faithfully tested the New Mexican wine, made of the Mission Grape grown 50 miles south of this, white and red from the same Grape (not the same barrel) similar to the Californian, but owing to cooler climate and high altitude, not so good fiery, therefore more pleasant.

I have found all functions Cacti except one which has never turned up since 1847 — and which I wanted badly.

I have heard from Wright and from Parry the latter intending to go to La Monica.



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GARDEN

Your good extensive letter of Aug 18 reached me
at Carson City on 29th. Have written to Beck
as you will know. Apples abundant at Mason
so that I could not resist sending a box (Cigars)
full to Meekhan; they are as sweet as cherries.
I know nothing of your Namadeads things -
hope you will work them up. Yes, I am going
to St Louis for the winter to work which I could
not do in California.

What is summer like between the floods
and the Indians?

When I return to St Louis in 5 or 6 days
I hope to find lots of letters and lots of
business after this loafing about. Weather
here delightful, while in St Louis it is still
hot, I learn. I want to hear also
from Pringle and about him.

Remember me to the ladies and
write at once to St Louis!

Yours truly

G Engelmann

MISSOURI BOTANICA.

GEORGE ENGELMANN PAPERS



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MISSOURI
BOTANICAL
GARDEN

St. Louis, Mo., Sept 23 1881

Dear Perry

Back here since a week (but
absent again with my friends - Alderson for 4 or 5
days) I get today your letter of Sept 16, and
will try to do as you wish, and keep stirring
you up. — On the whole I am happy —
temperature warmer than I have had it all
summer (91-96) — my summer collections
are lying all around me but are not yet
touched.

In your letter you never mention mine, I do not
know whether they come to hand or not. My
last one was for sent Dec 10. I was then
in Las Vegas, where the (very) Hot Springs
attracted my attention, and to my delight
I found a whole mountain side covered with
Juncos grisea (or is it pungens? or are
both the same? or is my old view of the
identity of all these with *J. undulata* correct?
J. Gambelii and this grows on different slopes,
but near each other. I of course sent
a stick of one to Targui, across to him
and Meekam, and made plenty of specimens
which you will share with me if you are
good. It has your characters of breeches-
tearing in a high degree!

I have got you *J. Douglasii* & *Wrightii*
and other things, which I have not examined,
and a whole lot from Parish, Wright and



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GARDEN

others which I have not yet opened;
the mass of things is too overwhelming.

George and wife are still east
will be back in 8 or 10 days. I am
alone here with my nephew who was
with me all summer.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

I had no difficulty in making out the
biennial fruit of *Q. wislizeni* - but whether
the leaves are persistent can not be made
out in autumnal specimens, the old leaves
having fallen (always?) by that time.

Had a good letter from Gray a day or two
ago, which with others had lain in Marion
2 or 3 weeks! He is still in trouble
about *Aster*, especially western ones.
I collected a number in Colorado, and last
year in California. Can not you and
Greene & Bridgely get more and plenty of
material for Gray's final onslaught?
But it must be many, not single
fragments, so as to be able to study
forms and transitions? Write to
Greene, Loomis and Bridgely about it.

If I hear soon from you, I will
write again, if not, not! Separately
sat!

I must shake up and wake up,
open the numerous parcels and work at
my own things.

Remember me to Mrs O - D.B.
and the other big men of the Academy.
Do you see anything of Wilson? Yours truly G.E.



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BOTANICAL
GARDEN

St. Louis, Mo., Oct 1st 1881

Dear Parry

I had a package of *Quercus*
virgiliana from you, but was waiting for
 explanatory epistola — but more so
 nothing has come, and I long to talk
 about it, so that you can watch and
 pray; I must do it without further
 notes from you.

Your former Oaks sent were true
Douglasii and "*virgiliana*" but the latter
 was rather hurriedly and negligently named so
 by me; notwithstanding the doubts which you
 expressed. The last lot (where? what
 sort of a tree?) however opened my eyes,
 so wide that I can not shut them yet.

Why, man here is the same thing, the
 undoubted *virgiliana* with annual and with
 biennial fruit !!??!!?? perorplexing!
 Are they from the same tree? Why, it is
 enough to take us to California at once
 to study that wonder — even before I eat
 pears and grapes! Well, you have to find
 it for me and for all of us. I won't say
 any thing about it, till I see more



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specimens and hear more of you.
I suppose they occur on different trees, but
apparently in same neighborhood, both the same
form - ought to be collected in spring and
in summer; unfortunately I find no young fruit
of this year on the biennial fruited thing -

What is now the difference from *agrifolia*?

I have written you from Santa Fe and
think since? Haven't I? If not, I
can tell you that I find *G. pungen* from Grice
at Las Vegas; but I must have written to you

So Lemoine is again in Arizona with
the shouldertraps - well, Bigelow must have
stimulated him wonderfully.

Found plants here from Wright, Pursh &
Bigelow but no time yet to study them.

We had hot weather till 2 days ago -
dark and at last raining now, cooler
and will have a fine fair week next week.

I am so overwhelmed with work, that
I am plainly, just and do nothing at all -
must have a little time to come to
regular work.

Did I tell you that Gray wrote me about
Asters; he says the western ones are worse
puzzles than any other. I can not help
him much, but have ^{gathered} a good deal of material
this and last year.

Write soon

Yours ever
J. E. Gray

* can you discover any other difference
between the two or make out any
cause for such illegitimate behavior?

These are *Sanborn's* *agrostoides* *biennial* *fruit* *one* *mark* *his* *distinction* *are* *extra* *(associated)*

St. Louis, Mo.,

Oct 28 1881

Dear Parry

here I am full of apologies and excuses not as much for my long silence as for the bad example I set you! But now as you by postal of Oct 19 tell me that you are going to leave S. Fr soon, I must hurry up.

The fact is that I have been bodily worn out and mentally distressed and incapacitated by the long and dangerous sickness of my nephew, my travelling companion of last summer. After our arrival here, six weeks ago, he began to fail, got weaker, kept up awhile, till three weeks ago he was fast in bed with what is now called here a typho-malarial fever, and not enough with that - pleuropneumonia supervened and he was at death's door. I and we all were worn out with watching and nursing, I had at last to get a professional nurse, to relieve us to some extent. He is getting better, but by no means well yet, has a long and tedious recovery before him though he seems to be out of immediate danger.

For all that I could not write nor do any thing in botany. Now let me run over several unanswered letters and take matters up seriatim.

Lemon sent a few days ago from Arizona that *Carpenteria* which I have now from ~~Arizona~~, Green's *C. Arizona*, var. *C. brevicaulis*. It is certainly distinct from *C. longensis*, and the genus is still a closed book to me (and also to Watson, I suppose).

Had a letter from Vingle from Portland, where he sends cones which have not come yet.

Also a bundle from Jones, who seems to have been about San Diego, sends junos, nothing new, will go again next year early.



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I have seen Muir's Artiller in Sonora with his caricatured figures of trees. I thought better of him.

Yes get seeds of *Y. Eschscholtzii*

Had a letter to day from Wright but have not heard from Parth and his the Monte expedition.

I believe I have asked you about that Kern River *Ephedra*. Who collected it? No flowers ???

My *Isotria* from your lake (the submerged meadows) turns out a form of *S. leucosticta*, I am publishing *Isotria* now in *Arct. Transact.* And you did not break the ice and go boldly in and get my "*Isotria*" *Isotria* — oh how cowardly! But you think I would have done it? But then Grand Lake was not icebound, but delightful to bath in.

Well, Greene is right, to work up a difficult genus or alliance in the field and not in dusty and musty and worm-eaten herbaria. That is the way to do good. Remember me to him.

When you get oaks, look out for the remnants of styles on the acorns, they are apt to break off, if handled.

I am delighted with my find at Las Vegas of *Q. grisea* which I think is a form of *pusgus*, and with very distinct from *undulata* and in some respects allied to *Q. virans*. Whether really evergreen I have not been able to make out.

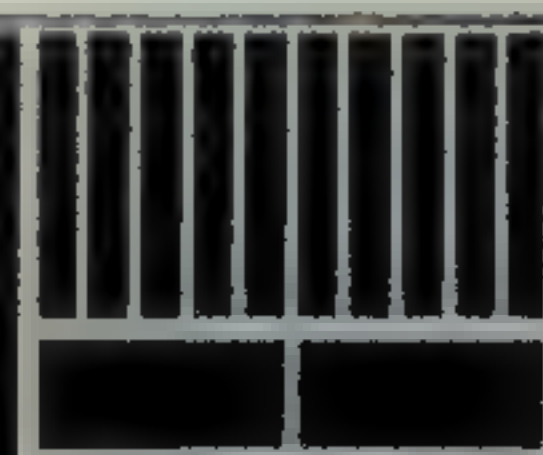
Op. from Yuma and *O. Whipplei* & *O. fulgida*, *O. densa* & *O. desertorum* are all flourishing at Shavers.

Will you hear from you again soon, and I hope to make a better correspondence herewith.

I may possibly have to go south (either S.C.!) with my nephew, when he can travel — would prefer Los Angeles!!

"Killogg's" says "does he know" about *Q. agrifolia*, which it is — he thinks so, but we have not seen yet *brevid* *agrifolia* — Hilgard thought so too, got specimens, studied them with my eyes and became satisfied that second glaucous takes place sometimes (as in *appetens* etc), fruits don't ripen, remain over winter, but fall off in spring new season.

Young even
we have warm winter yet, no fires. *Q. Engelmannii*



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MISSOURI
BOTANICAL
GARDEN

St. Louis, Mo., Nov 28 1881

Dear Perry

What sort of a man you are! Here comes a lot of oak specimens, marked on the outside with your name, it is *Q. oblongifolia* — all right, and then a nameless small species — no locality, no history, no postal card, to elucidate, nothing! I take it for a form of *Q. dumosa*.

Q. oblongifolia comes now also from Paris. The curiosity is that it has connate cotyledons, like *Q. virens*, but to test them, I have to take the only acorn you sent and destroy it! However, I have now through my own collection of Sept 1880, Paris and you, also Greene at St. Louis City, material enough; they are all true to this character, but the mischief is that *Q. grisea* also has the same connate cotyledons!

Now, looking over your old letter of Nov. 9th I find that you probably refer to this oak that I took for *Q. dumosa*, as *Q. wislizeni*? No that is impossible, but the last batch was *oblongifolia* and this doubtful one. I shall get mad at you, why not launch a P. Card with full notes when you send any thing.

What a nice thing, such a R. A. King and his \$20.000 I could get Passes from Utland, but I do not want to — (perhaps too proud to ask?)

My nephews is out of bed a few hours each day but quite an invalid yet. We telegraphed for his brother who came over at short notice and is now with us, nursing him — Yes you better give me up! As Grapes and Pears and the R. A. passes which I still hold, and above all your precious self could not move me, you are



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GARDEN

perfectly justified in giving me up!

I fear, common over. I think in Arizona and I is now protected. I told you that he sent me his new Cupressus, and now I got a batch of bark and wood of it - without any notice, which I suppose is Californian fashion. I was wrong in classifying Gracilis Gracilis with the other 3 Arizona things I have (Fendall, Bridg, Lemmon) those last I call *C. erythrophloea* (from good long name!) and begin to work Cupressus up; but I must again tell you that it is one of the most difficult genera! There is hardly a character to hook on a species. *C. macrocarpa* is the best characterized. Can you not make an excursion to Pescadero and get specimens (though I have it from Bolander) and bark and also bark of *C. Goveana* (which you got at San Diego (where?) - 1850.) which seems to be found all over the coast region of California. *C. macrocarpa* was the only one I saw myself and got bark etc near Monterey.

Isatis is printing now. Who, when & where was the *Ephedra* collected which you sent in good fruit? Parish sent me flowers of the white water species, which we found in November - just a year ago!!

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Sorry for poor *Dioscorea*.

We will have to close the present number of *Transact.* with my Isatis paper, so that your *Oxytheca* can not well come in. I then turn for the next number, or will you give it to *Arch. Gazette*?

I am dabbling at Cupressus, at Oaks, at Leguminosae and diverse other things, but doing no serious, thorough work, - too bad!

I wrote to Bridg the other day with a note for you. Did you or he get it?

Tell Lemmon about Cupressus. Has he good things? If so, I will send him \$10. - for a pick of his things, or more if you advise so.

Did you see Cleveland about which I wrote to you some months ago? I would not wound the feelings of such a good fellow, and sick too!

Enough for this day - regards to Baker and all friends. - I think the entire and the lob. leaved forms of *San Gabriel* are all oblong foli. No Douglas? There
yours truly G. Engelmann



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MISSOURI
BOTANICAL
GARDEN

St. Louis, Mo., Dec 12th 1881

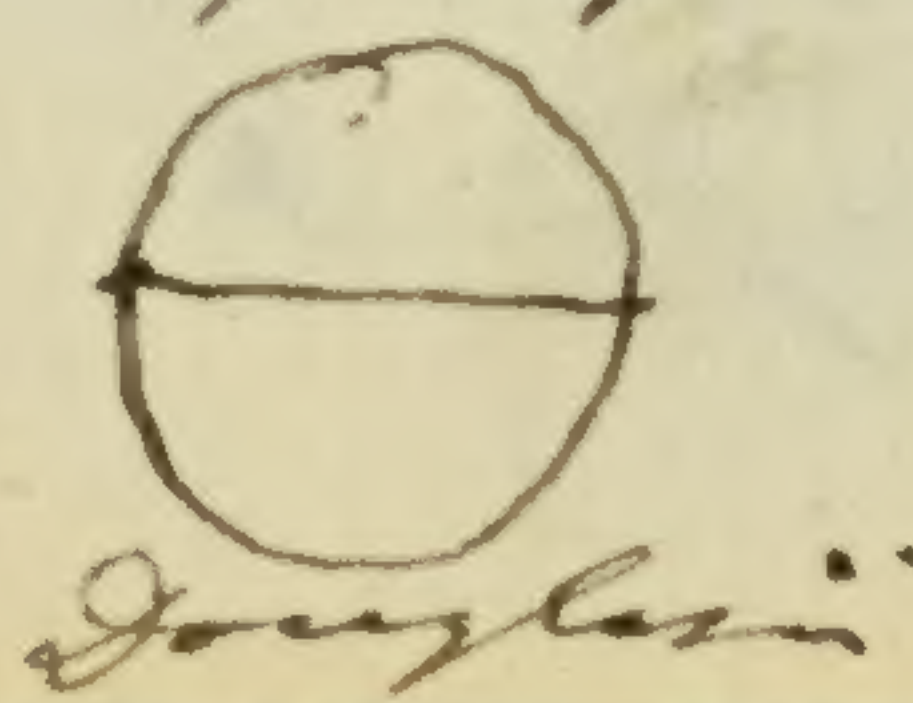
Dear Parry

your letter of Dec 7th arrived here according to O O Haug last evening at 7 P.M. and was delivered to me this morning at 7 1/2

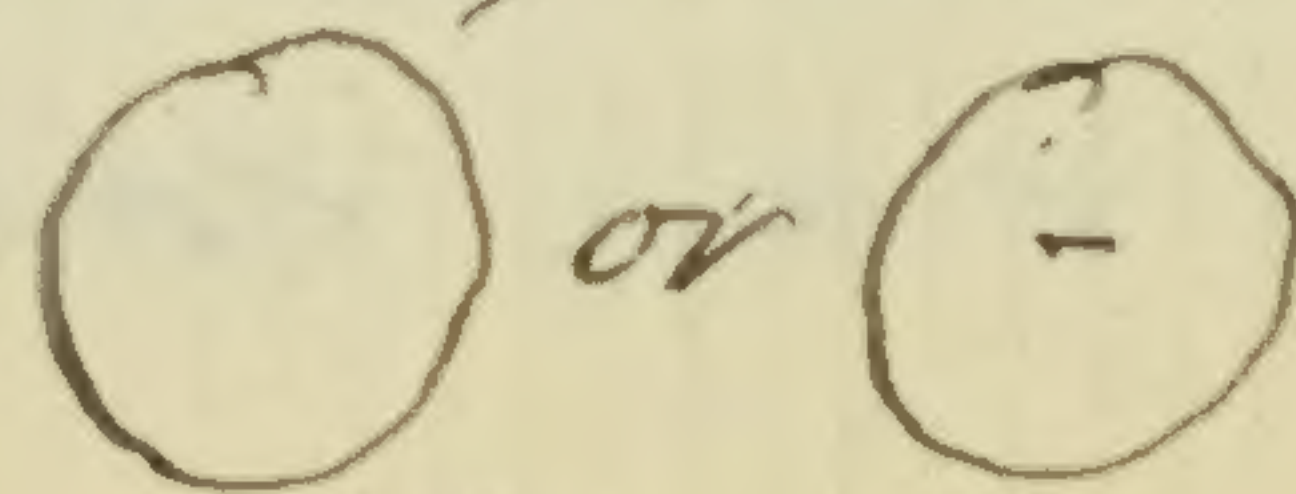
Today the Lord showers its blessings on me as the same mail brought a letter from Brigle, Tucson Dec 7th and one from Mrs Cannon Dec 5th, which came here Saturday eve. Now you have all the dates.

I have not reported about the oaks you sent the other day. One was correctly labeled by you *Q. oblongifolia*, the acorns of which this time I have got plenty to cut up, have united cotyledons, like *Q. virens*. The others have separate (normal) cotyledons and are probably *Q. Douglasii*, but they no foliage with them? Must I always complain (and scold)? If both come from San Gabriel, it appears that both grow together there.

You can easily examine for yourself; you soak or boil the acorn after opening the shell and the cotyledons will come apart by working a little with them; or you make transverse sections when *oblongifolia* will show a perfect σ , sometimes with a slight slit in side



Douglasii



oblongifolia



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BOTANICAL
GARDEN

Well, if Greene prints too much, he will have to take back much. I hope he will not imitate Buckley.

I have written to Parish for fruiting specimens of his new junos and his new? Euphorbia the former is near marginatus but a good species, which I call canaliculatus; the Euphorbia is near polycarpa but probably distinct. I want to see more of it.

You never answered my query about the Ephedra of Kings Arroyo, it is in good fruit, and the same as the White water species, probably = San Diego plant. Parish sends good flowers of the former.

Thanks for the labels — the more essential part, the specimens will follow, I hope. You ought to have said n. gen & spec.

No wonder Bridgely is a little put out — will he will settle personally with Sargent. He (Sargent) invites me to a trip to the Mexican border to follow up Arizona tour. Guess I do not feel like it. He sends all his Cupressus material and I am hard at work — hope Greene and Watson wont spoil my work — A most difficult genus. Where did you get your San Diego Cupressus? Shreve? I have a small branch from the Torrey. Lasey got some on the desert Mt — Great confusion, even Hooker dont know any thing!

Mrs. Leemon's letter complains that I have ^{not} written or acknowledge them of Jan 10 — but it has been done at the time. Why does she write?

So Muir is back! a happy husband & father? Remember me to Mrs. Parry

I write this at once to find how quick we can correspond — if we want to!

Yours ever G Engelmann

It is a note by Bridgely and I will take my key out for the first time!



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